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(54) IONIZED WATER FOR PRODUCING DRINK AND FOOD

(57) Abstract:

PURPOSE: To obtain ionized water for producing drinks and foods by making seawater acidic, adding a strong alkali agent, removing a formed precipitate, concentrating and cooling the resulting soln., separating a deposited precipitate by filtration, removing water from the filtrate and dissolving the resulting solid and the deposited precipitate in water.

CONSTITUTION: Seawater is adjusted to a low pH with a strong acid contg. sulfuric acid ions and a strong alkali agent is added to adjust the seawater to a high

pH. By this adjustment, salts such as sulfates of alkaline earth metals and other metals are precipitated, this precipitate is removed by filtration or other method and the remaining seawater is heated to evaporate water. The concentrated seawater is cooled and a deposited precipitate based on Na, Mg, K, Ca and Si is separated by filtration or other method. Water is removed from the filtrate and the resulting solid and the deposited precipitates are dissolved in water to obtain ionized water for producing drinks and foods. An activated calcium material based on calcium phosphate obtd. by crushing animal bones after firing at a high temp. is preferably added to the ionized water.

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